

U.S. Appln. S.N. 10/550,293
AMENDMENT AFTER FINAL REJECTION

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REMARKS

This Amendment cancels claim 10 and amends claims 8 and 9. The amendment of claim 8 to specify the large turn is wound 270° is taken from claim 10. Fig 5 supports the 360° small turn feature of claim 8. The deletions to claim 9 merely reflect their incorporation into claim 8. Claims 8, 9 and 11-13 are pending.

Entry of this Amendment is earnestly requested, as it is believed (1) to place the application in condition for allowance, (2) not to raise any new issue or require further search by the Examiner, (3) to be directly responsive to the Official Action, and (4) to place the application in even better form for appeal, should such appeal be necessary. The amendment of claim 8 to specify the turn of larger dimension is wound 270° cannot raise a new issue because this feature was previously searched and examined as claim 10. The amendment of claim 8 to further specify the turn of small dimension is wound 360° further clarifies the intended antenna configuration and cannot come as a surprise to the Office.

This Amendment overcomes the objection to the declaration. A Supplemental Application Data Sheet bearing the correct priority date is attached. 37 C.F.R. 1.63(c) permits the use of an application data sheet, rather than an inventor's declaration, to

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make a priority claim, while 37 C.F.R. § 1.76(c) provides for submission of a supplemental application data sheet to correct information in a previously submitted declaration. 37 C.F.R. § 1.76(d)(1) provides the latest information submitted to the Office will govern notwithstanding whether the information is supplied by an application data sheet or by a declaration. Reconsideration and withdrawal of the objection to the declaration are earnestly requested.

This Amendment overcomes the 35 U.S.C. § 112, first paragraph, rejection of claims 9 and 10. Claim 10 has been canceled, while claims 8 has been amended to specify the turn of larger dimension has a turn of 270° and the turn of small dimension is wound 360°. The specification provides ample support for these features of the invention at page 5, lines 17-27 and Fig. 5. Reconsideration and withdrawal of the written description rejection of claims 9 and 10 are earnestly requested.

This Amendment overcomes the 35 U.S.C. § 103(a) rejection of claims 8-13 over U.S. Patent No. 6,642,896 to Kim in view of U.S. Patent No. 6,486,780 to Garber et al. and U.S. Published Application 2004/0100413 to Waldner. The claimed contactless reading system includes a mobile reader comprising an antenna

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support on which is fixed at least three antennae connected in series, with each antenna comprising a turn of small dimension connected in series with one turn of larger dimension, with each turn of larger dimension being wound 270° and the turn of small dimension being wound 360°, the antenna wire being wound so as to respect a symmetry of the resulting antenna and to obtain a uniformly distributed electromagnetic field according to radial symmetry.

The cited combination of references fails to raise a prima facie case of obviousness against the claimed system. Kim fails to disclose or suggest a reader containing at least three antennae in series, in which each antenna comprises a turn of small dimension connected in series with one turn of larger dimension, with each turn of larger dimension being wound 270° and the turn of small dimension being wound 360°.

The secondary references fail to remedy the deficiencies of Kim. Garber et al. also fails to disclose or suggest a reader containing at least three antenna in series, with each antenna comprising a turn of small dimension connected in series with one turn of larger dimension, with each turn of larger dimension being wound 270° and each turn of small dimension being wound 360°.

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Waldner also fails to disclose or suggest an antenna comprising a turn of small dimension connected in series with one turn of larger dimension, with each turn of larger dimension being wound 270° and each turn of small dimension being wound 360°. Instead, Waldner disclose an antenna comprising a plurality of concentric rectangular loops, with one or more loops optionally being made from a single continuous trace or wire. See Fig. 3 and paragraph No. [0044]. One of ordinary skill in the art is given no motivation or suggestion to modify its antenna configuration by winding a larger turn 270° and connecting it in series to a turn of smaller dimension which is wound 360°.

Waldner also fails to disclose or suggest its antenna loops should have a ratio between the diameter of a circular turn of large dimension and the diameter of a circular turn of small dimension connected in series therewith between 2 and 3. Instead, Waldner teaches its antenna may have a plurality of loops having a spacing of approximately 0.4 inches on center between each loop (paragraph [0046]). Given that Waldner also teaches that only the outer and most concentric loops may be powered (with the inner loops being parasitic), there is no guidance or suggestion which would lead one of ordinary skill to the claimed ratio.

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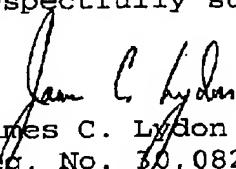
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Reconsideration and withdrawal of the obviousness rejection of claims 8-13 are earnestly requested.

It is believed this application is in condition for allowance. Reconsideration and withdrawal of the objection to the declaration and all rejections of claims 8-13, and issuance of a Notice of Allowance directed to claims 8, 9 and 11-13, are earnestly requested. The Examiner is urged to telephone the undersigned should he believe any further action is required for allowance.

A Petition and fee for a two month Extension of Time are attached. It is not believed any additional fee is required for entry and consideration of this Amendment. Nevertheless, the Commissioner is authorized to charge our Deposit Account No. 50-1258 in the amount of any such required fee.

Respectfully submitted,


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Enclosures:

Petition for Extension of Time
Supplemental Application Data Sheet